s/169/61/000/011/062/065 D228/D304

AUTHOR:

Fedorova, N.I.

TITLE:

Intensification of λ 10830Å emission in auroral

spectral

PERIODIC AL:

Referativnyy zhurnal, Geofizika, no. 11, 1961, 10, abstract 11G209 (V sb. Spektr. elektrofotometr. i radiolokats. issled. polyarn. siyaniy i siyaniy i svecheniya nochn. neba, no. 5, M., AN SSSR, 1961,

42 - 46)

TEXT: A very prolonged and intense aurora was observed at Lopars-kaya station (63.6°N, 126.7°E) on March 31 - April 1 and April 1 2, 1960. All auroral emissions are markedly intensified in the obtained spectra. The intensification of \$10830\$ emission was of greatest interest, as also in the case of the aurora of February 10 - 11, 1958, which was observed at Zvenigorod (see RZhGeofiz, no. 1960, 5492). The spectrum of the aurora of March 31 - April 1. 1960, with the very intense line 2D - 2P[NI] λ 10400Å, is given. To Card 1/2

京製理計算

,也是1965年中国的中国家的研究的中国教育。建筑这些国际公司

Intensitfication of 10830A ...

S/169/61/000/011/062/065 D228/D304

estimate the intensification of the Q-branch of the (5.2) band, its intensity was compared with that of the Q-branch of the (4.1) band. The results of measuring certain spectra are cited. The mean ratio between the intensities of the Q-branches of bands (5.2) and (4.1) in a clear sky equals 1.5 and does not exceed 1.9. The author considers that a ratio of more than 2 is caused by the superimposition of helium emission. [Abstractor's note: Complete translation].

Card 2/2

31807 \$/203/61/001/005/012/028 A006/A101

Fedorova, N.I.

AUTHOR: TITLE:

On the problem of observing zero bands 1PG N2 \$\lambda 10,420 \$\lambda\$ and the Meinel negative system N2 & 11,109 % in aurora polaris

PERIODICAL:

Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 702 - 708

The author studied spectra of aurora polaris within a range of 9,000 - 11,500 & for the purpose of detecting zero bands 1PG N2 \$\lambda 10,420 & and the Meinel negative system N2 \ 11,109 A. Spectra were obtained with the aid of two CN-50 (SP-50) spectrographs with electron-optical transformers. Within the aforementioned range weak emissions were obtained, whose intensities were not in accordance either with calculated or photoelectric values observed. In the according to the new oscillation numbering: $(2-1) \lambda 9,475 R$; $(3-2) \lambda 9,780 R$; (4-3) λ 10,105 Å and (5-4) λ 10,540 Å. The investigation shows that zero bands 1Pg N₂ and bands of the Meinel system N₂ are not the most intensive ones in the systems investigated. Their intensity in weak auroras is in any case considerably below that of hydroxyl emission in corresponding regions. The author thanks

Card 1/2

31807

S/203/61/001/005/012/028

A006/A101

On the problem of observing zero bands \dots

V.I. Krasovskiy for his assistance and supervision. There are 2 figures, 1 table and 21 references: 5 Soviet-bloc and 16 non-Soviet-bloc.

ASSOCIATION: Institut fiziki atmosfery AN SSSR (Institute of Physics of the Atmo-

sphere, AS USSR)

SUBMITTED:

August 4, 1961

Card 2/2

s/049/62/000/004/002/003 D207/D301

AUTHOR:

Fedorova, N.I.

TITLE:

Twilight fluorescence of λ 10830 Å helium emission

Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya

no. 4, 1962, 538 - 547 PERIODICAL:

The author reports observations carried out in 1961 and analyzes these observations together with the 1960 results. The auro-ral He I line at 10830 A was recorded with an infrared spectrograph CN -50 (SP-50) fitted with an image converter and an intensity recorder described by L.M. Kotlyar and constructed by V.N. Sidorov. The He I line appeared only at twilight (evening and morning). At night it was not observed even during aurora. The observations of the line did not correlate with any particular auroral emission or form. The lower and upper boundaries of the layer emitting the 10830 Å line were estimated as 150 - 170 km and about 500 km, respectively. The main concentration of the emitting He atoms occurred at 200 - 300 km. Acknowledgements are made to V.I. Krasovskiy for directing this work and V.G. Trunov and V.N. Sidorov for help Card 1/2

S/049/62/000/004/002/003 D207/D301

Twilight fluorescence of ...

in observations and analysis of the data. There are 4 figures, 1—table and 18 references: 12 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: N.I. Fedorova, Planet, Space Sci., no. 5, 1961; N.N. Shefov, Planet. Space Sci., no. 5, 1961; C.E. McIlwain, J. Geophys. Res., 65, no. 9, 1960; J.W. Chamberlain and G. Sagan, Planet Space Sci., no. 2, 1960.

ASSOCIATION: Institut fiziki atmosfery, Akademiya nauk SSSR (Insti-

tute of Physics of the Atmsophere, Academy of Sciences

of the USSR)

SUBMITTED: April 15, 1961

Card 2/2

3 49354.99 To Lorova, N. I. (Candidate of physics and mathematics The investigations on the physics of the upper atmosphere [Report of the regular All-Union meeting on the physics of the upper atmosphere, held in Moscow 50 - 27 May 1963] SOURCE: AN SSSR. Vestnik, no. 8, 1963, 113-115 TOPIC TAGS: satellite instrumentation, terrestrial magnetosphere, ionosphere electric field, Mersal, space station, night sirglow. ARCTRACT: From 21 to 23 May 1963 a conference on the physics of the upper atmosphere and the the Institut fiziki atmosfery* Akademii neuk SSSR (the Institute of And uphere, Academy of Sciences 5868 . Yu. I. Caliperin described station used on satellites for recording electrons and protons of es. The ema of high-energy positive one were tetested with these of at a fitures of 200-600 km. Electrons carrying aparaies of several Hard Normalita were recorded on the day side of the limbsphere at beights of more than 1000 km. K. I. Gringauz and his coworkers have studied the measurements made by the "Mars-1" space station at the point at which the terrestrial Cord 1/2

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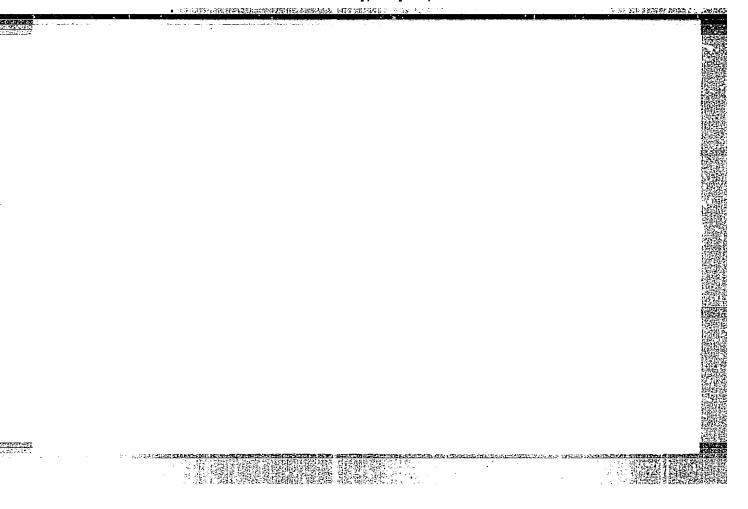
77 1 7 101 AP 5005492 the land envelope intersects the extreme belt of charged particles. ar plasma streams in interplanetary space report was easily and the ionosphere, because by means the appropriate. neith of the restriction geophysical rockets of the Academy of themses, was firm to -3 m. Y. G. Istomin reported on the great quantity of the frecied by cadio-frequency mass spectrometer at the height of 250 km. The electrical energy of these ions is higher than their thermal energy. E. I. Mogilevskiy proved the (mossibility of capturing solar plasma in the terrestrial magnetosphere without that were magnetic field within the Corpuscular stream. A. I. Yershauvich reported on the role of solar cosmic rays Vin the firmation of the electronic comthe radiation belts of the earth. Yershkovich observed that an electhe stream with an energy of 200-1400 ev could have resulted from the S-decomposition of neutrons. A study of mirors spectra has shown that an emission intensity with an excitation energy of more than 12.5 ev decreases sharply, but increases again at 25 ev. An invertigation of the night-airglow line 5563 Å by P. 1. Shchegloy indicated an intensity variation. The line intensity increeses in the direction of the sun and the ecliptic end is greater in the morning then in the evening. ASSOCIATION: none ENCL: 00 DATE AUQ: 06Sep63 SUBMITTED: 00 OTHER: NO REF SOV: 000 SUB CODE: AS

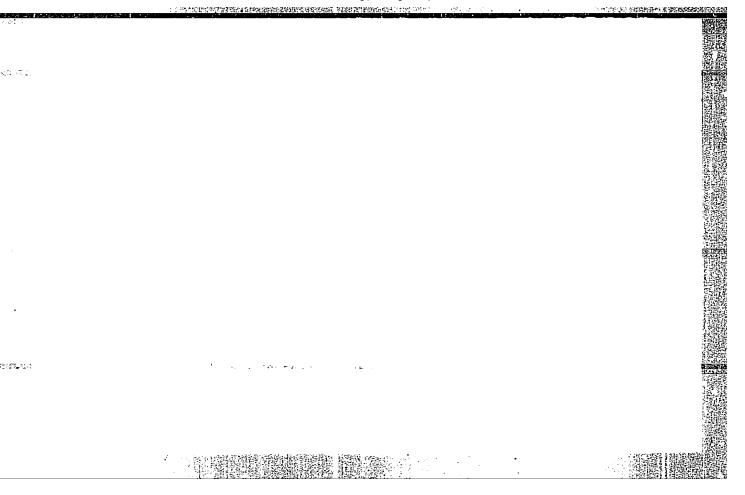
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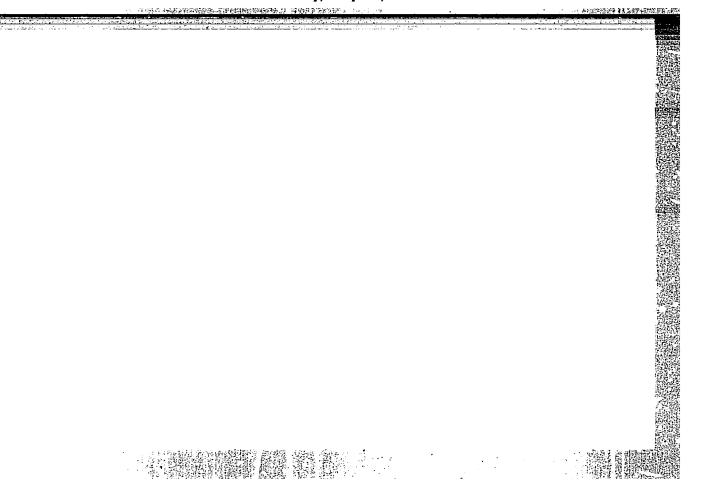
Problems of the upper atmosphere. Zem. i vael. 1 no.4: 70-73 J1-Ag '65. (MIRA 18:12)

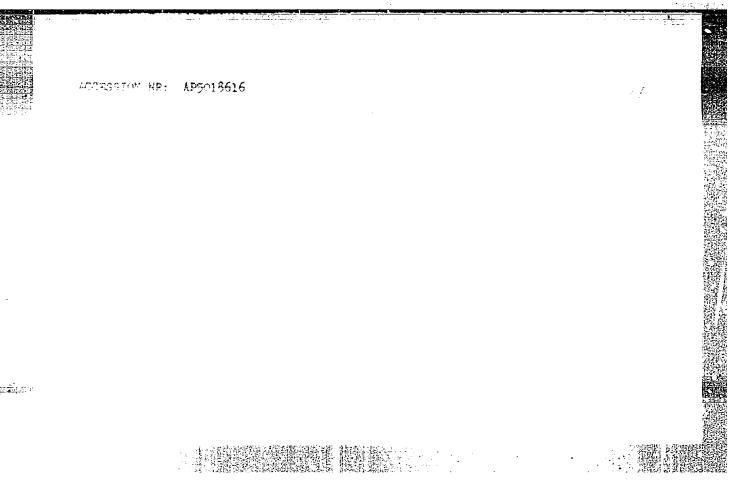
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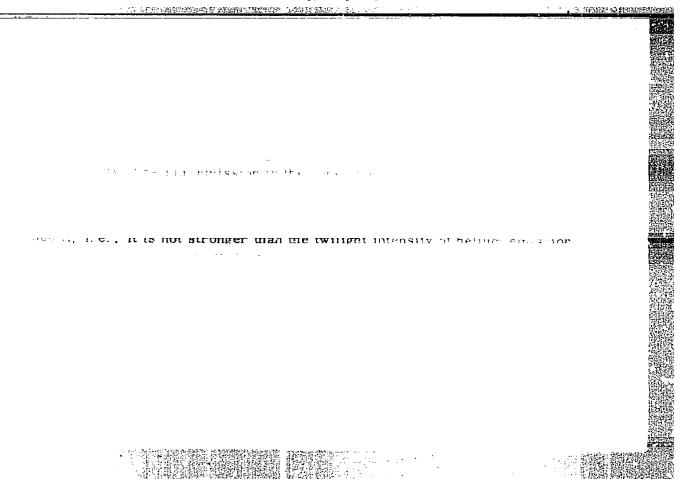
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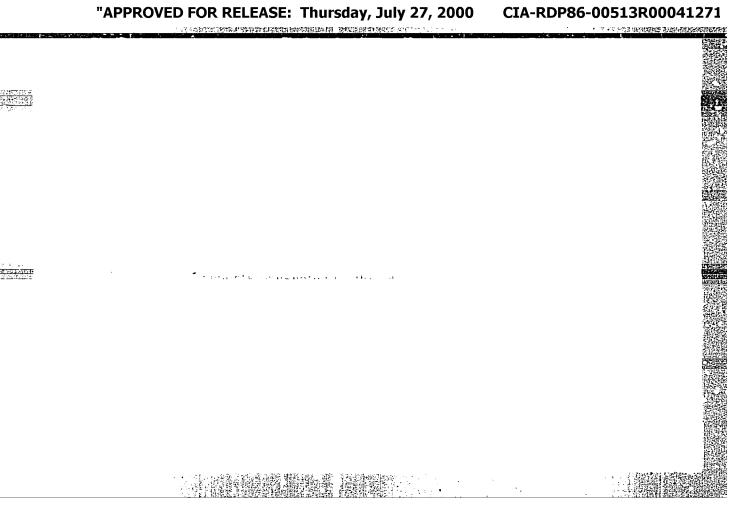


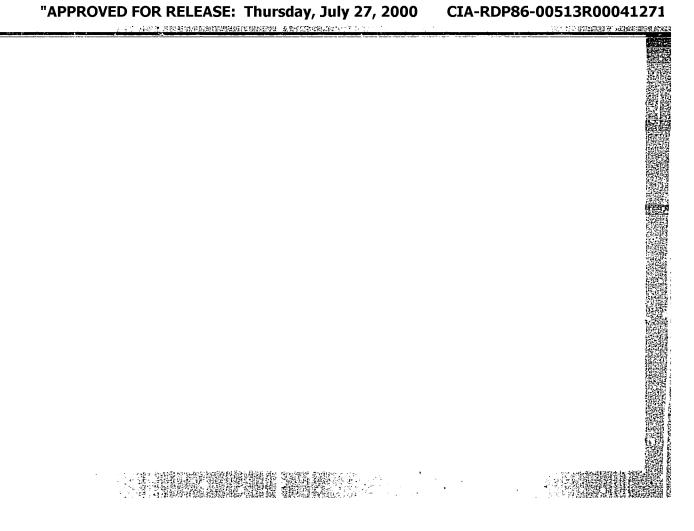


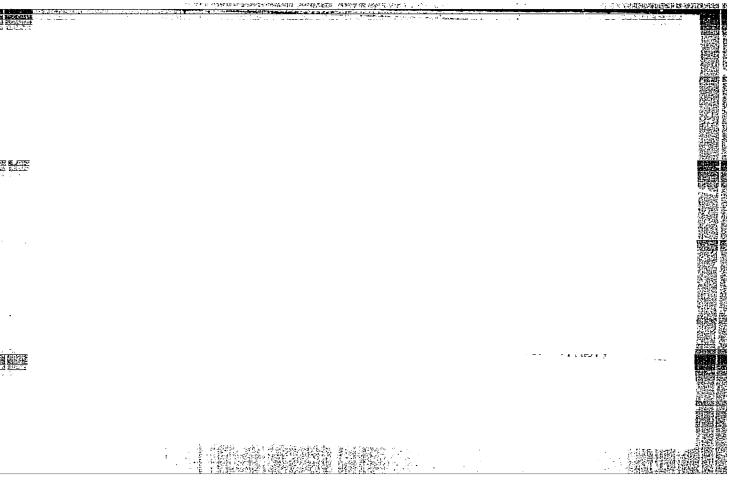












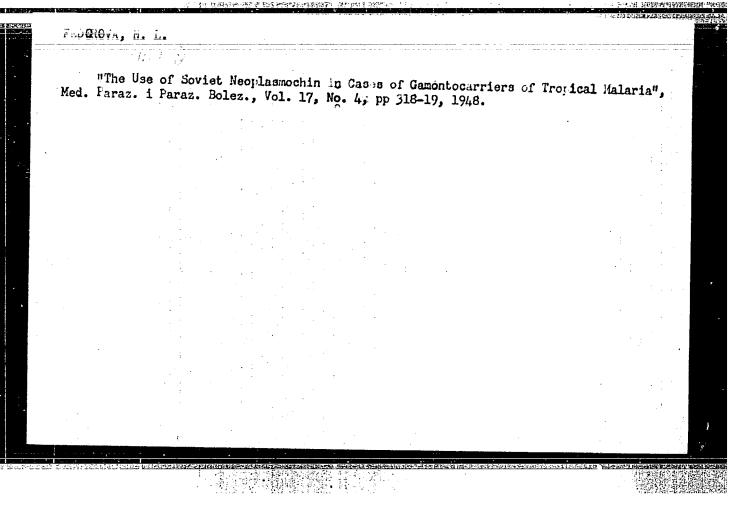
ACC NR. AF5024187 AUTHOR: Fedorova, N. I. (Candidate of physical street)		: UR/0384/65/ ical ociences)		υ/ω <i>/</i>	اد
ORG: none		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		
TITLE: All-Union Conference on the Physics	s of the Uppe	r Atmosphere			
SOURCE: Zemlya i vselennaya, no. 4, 1965,	70-73			:	
TOPIC TAGS: meteorologic conference, atmo	pepheric therm	odynamics, sol	ar activity		
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FEDOROVA, N.K.

Strychmine nitrate treatment of acute barbiturate poisoning. Vrach. delo no.8:144-145 Ag '63. (MIRA 16:9)

1. Terapevticheskoye otdeleniye (zav. - V.S.Tutkevich) Shost-kinskoy mezhrayonnoy bol'nitsy No.1.

(BARBITURATES_TOXICOLOGY) (STRYCHNINE)



FEDOROVA, N. M.
"Properties of Algebraic Curves and Surfaces in Conjunction with a Generalization of Carnot's Theorem and the Theorem Converse to the Latter." Rostov State U imeni V. N. Wolotov, Rostov-on-Don, 1955. (Dissertation for the Degree of Candidate of

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

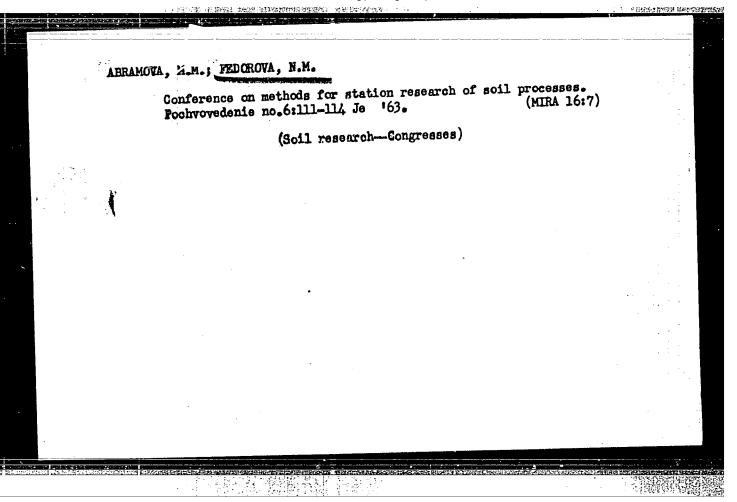
Physical and Mathematical Sciences)

FEDORCVA, N. K.

Dissertation defended at the Institute of Physiology imeni I. F. Favlov for the academic degree of Candidate of Medical Sciences: (1962)

"Significance of Several Functional Tests in Farly Diagnosis of Typertonic Disease."

Vestnik Akad Nauk, No. 4, 1963, pp. 110-145



Fodorous, N.M.

46-3-5/15

AUTHORS: Mikhaylov, I.G. and Fedorova, N.M.

TITLE: Absorption of Large Amplitude Ultrasonic Waves in Structurated Solutions (Pogloshcheniye ul'trazvukovykh voln bol'shoy amplitudy v strukturirovannykh rastvorakh)

PERIODICAL: Akusticheskiy Zhurnal, 1957, Vol.III, Nr 3, pp.239-242 (USSR)

ABSTRACT: The propagation of ultrasonic waves of large amplitude in liquids is of major interest. It was shown in (Refs.1 and 2) that the coefficient of absorption of ultrasonic waves depends on the intensity of ultrasound. So far this effect has only been observed in some pure liquids. The present authors have studied the absorption of ultrasonic waves of large amplitude in solutions having structural viscosity. It might be expected that in this case at large intensities a break up in the structure of the solution would occur. This would necessarily have an effect on the coefficient of absorption as a function of intensity of ultrasound. Thus, a sorption as a function of ultrasonic waves of finite amplitude may lead to information on the interactions between molecules of structurated solutions. For these reasons the absorption of ultrasonic waves of finite amplitude was measorption of ultrasonic waves of finite amplitude was measorption of ultrasonic waves of polymers (polyizobutylene)

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46-3-5/15

Absorption of Large Amplitude Ultrasonic Waves in Structurated Solutions.

The measurements were in benzene and perbutane in toluene). It was found that carried out at a frequency of 5 Mc/s. structural changes occur at a certain threshold intensity which depends on the nature of the dissolved polymer and the solvent. Fig.4 shows the coefficient of absorption as a function of intensity for benzene and a 10% solution of polyizobutylene MB 98 000. Curve 1 corresponds to benzene and Curve 2 to the polyizobutylene solution. As can be seen, in the case of benzene the coefficient of absorption continually increases with intensity. The same applies for the solution of polyizobutylene (up to the threshold intensity). For intensities above the threshold intensity absorption is determined by the degree of structural break up of the solution. It is pointed out that the coefficient of absorption for ultrasonic waves begins to depend on intensity already at voltages of the order of 150-200 V across Card 2/3 the radiating quartz crystal.

46-3-5/15

Absorption of Large Amplitude Ultrasonic Waves in Structurated Solutions.

There are 4 figures and 5 references, 3 Russian and 2 English.

ASSOCIATION: Leningrad State University (Leningradskiy gosudarstennyy universitet)

SUBMITTED: July 25, 1956.

AVAILABLE: Library of Congress.

Card 3/3

sov/54-58-3-9/19 Mikhaylov, I. G., Fedorova, H. M. AUTHORS:

Propagation of Ultrasonic Waves in Polymer Solutions (Rasprostraneniye ul'trazvuka v rastvorakh polimerov) TITLE:

Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, PERIODICAL:

1958, Nr 3, pp 78-88 (USSR)

The authors investigated the propagation of ultrasonic waves of small and of great amplitude in concentrated polymer ABSTRACT:

solutions; simultaneously they measured the structural viscosity of these solutions. The solutions of poly-isobutylene in gasoline; of perbutane in toluene, acetone, and bromobenzene; of polystyrene in toluene and bromobenzene were examined. It turned out that the absorption in these solutions differs only little from the absorption in the pure solvents. Substances of a bulk viscosity as low as possible were employed as solvents. Data on poly-isobutylene solutions are given in table 1. It can be seen that relaxation occurs if the concentration is increased. The same phenomenon can be observed in a solution of perbutane in toluene as

well (Table 2). This corresponds to the calculation by Gotlib and Vol'kenshteyn. When the intensity is increased Card 1/3

Propagation of Ultrasonic Waves in Polymer Solutions SOV/54-58-3-9/19

it does not vary linearly as the distance any more. This fact leads to the conclusion that the absorption coefficient itself is dependent on the intensity. In the case of intensities higher than the so-called threshold intensity the magnitude of the received pulse depends on the duration of irradiation. Hence, it can be derived that at intensities higher than the threshold intensity a change in the capability to absorb takes place apparently connected with a change of the structure of the solution. The time-dependent change of the received pulses has been observed to go on in perfectly the same way on the occasion of small and high amplitudes (Fig 9). The change of the absorbtion power of the medium depends on the viscous loss because of the destruction of the structure of the solution. Furthermore it was found out that after having stopped the ultrasonic irradiation the initial acoustic properties of the solution are completely established. This shows that at intensities above the threshold intensity tixotropic phenomena occur. They are connected with the rupture of the Van der Waals nodes in the polymer lattice. The amount of the threshold intensity depends only on the nature of the dissolved polymer and of the solvent, but neither on the concentration nor on the molecular weight of the polyner.

Card 2/3

Propagation of Ultrasonic Waves in Polymer Solutions SOV/54-58-3-9/19

All results indicate the possibility of applying ultrasonic methods for the investigation of the structure of polymer solutions and for the determination of the energy of the node bindings. There are 9 figures, 2 tables, and 10 references, 6 of which are Soviet.

SUBMITTED: March 5, 1958

Card 3/3

MIKHAYLOV, I.G.; FEDOROVA, N.N.

Propagation of ultrasonic waves in polymer solutions [with summary in English]. Vest. LGU 13 no.16:78-88 '58. (MIRA 11:11) (Ultrasonic waves) (Folymers)

B/046/63/009/001/009**/026** B104/B186

AUTHORS:

Mikhaylov, I. G., Fedorova, N. M.

TITLE:

Study of structure variations of concentrated solutions of

polymers by means of ultrasound

PERIODICAL:

Akusticheskiy shurnal, v. 9, no. 1, 1963, 50-53

TEXT: In previous papers (Akust. zh., 1957, 3, 3, 293-242; Vestn. LGU. Ser. fiziki i khimii, 1958, 16, 3, 78) the authors showed that ultrasound may be used to change the structure of crosslinked systems as well as to measure these variations. The influence of temperature on the structure of concentrated polymer solutions was investigated by studying the temperature dependence of $\Delta(\alpha/v^2) = \alpha/v^2 - \alpha_0/v^2$ in solutions of polyisobutylene in gasoline between 0 and 60° C. α is the absorption coefficient of the solution, α_0 that of the solvent. It is shown that the absorption coefficient of ultrasonic waves is a characteristic most sensitive to structure variations. The intense variations of the absorption coefficient in the temperature interval can be explained only Card 1/2

Study of structure variations ...

8/046/63/009/001/009/026 B104/B186

by variations of the structure. It is assumed that structure variations occurring due to intense ultrasonic irradiation or due to temperature variations are related to variations of the number of Van-der-Waals sites in the polymer lattice. It is shown that the structure variations are not produced by cavitations. There are 3 figures.

ASSOCIATION:

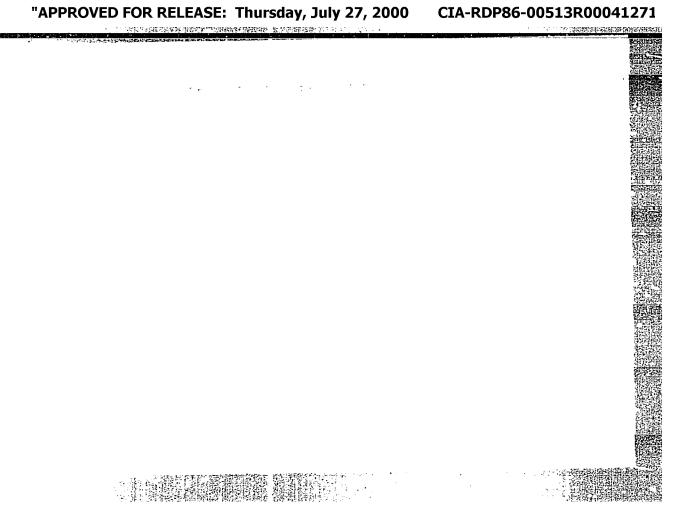
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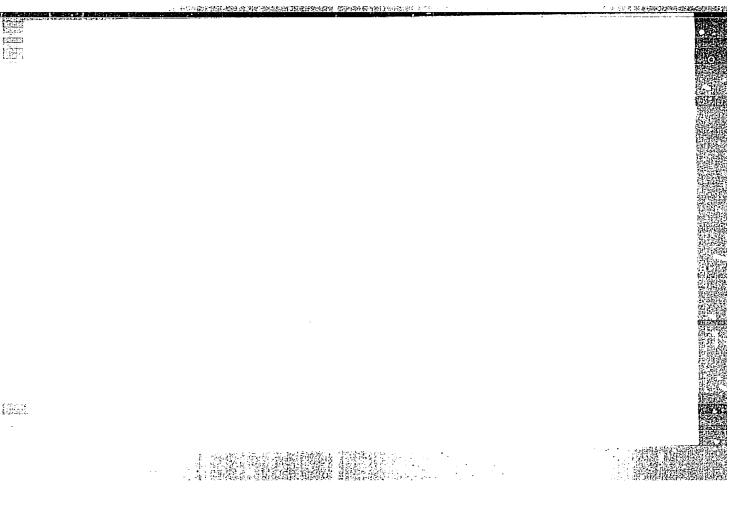
University)

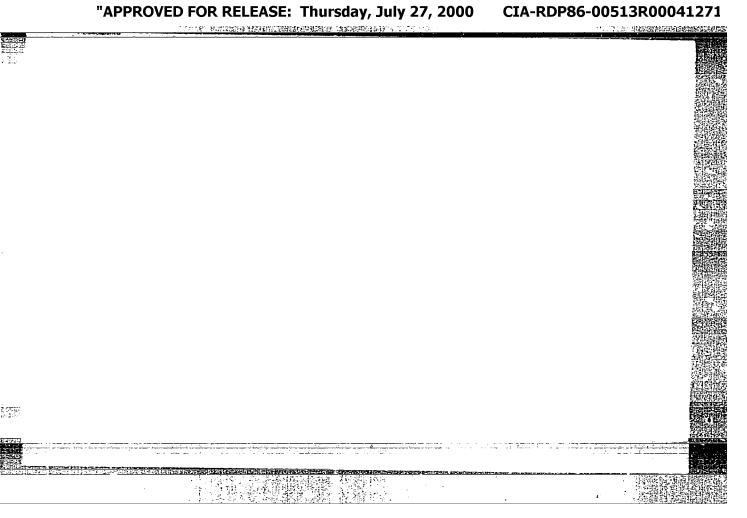
SUBMITTED:

May 11, 1962

Card 2/2







LAPSHIN, V.V.; SITNIKOVA, I.V.; RYABCHENKOV, V.N.; LIKHOBABENKO, A.P.; Prinimali uchastiye: FEDOROVA, N.M.; LASTOVA, N.A.; OSIPOVA, A.P.; KOZ'MINA, N.M.

Effect of the degree of branching of high density polyethylene on the mechanical properties of tubes produced by extrasion. Plast. massy no.5:22-26 '65. (MIRA 18:6)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412710

Result of treatment of eczema at the Talgi health resort. Vest. derm. i ven. 32 no.6:34-37 N-D '58. (MIRA 12:1)

1. Is kliniki koshnykh i venericheskikh bolezney Dagestanskogo

meditsinskogo instituta (dir. - dots. S. Tu. Alibekov)
(ECZEMA, ther.
mineral water baths of Talgi, Russia (Rus))
(RAINEOLOGY, in various dis.

mineral water baths of Talgi, Russia (Rus))

FEDOROVA, H.B. (Leningrad, Bol'shaya Zelenina ul., d. 15, kv.34)

Hemorrhages into the extrapleural cavity after pneumonolysis.
Vest.khir. 79 no.11:131-132 # '57. (MEA 11:3)

1. Is tuberkulesnoy bol'nitsy (gl.vrach-G.P.Shamritekaya)
Lengorsdravotdela na stanteii Rasliv.
(COLLAPSE THERAPY
pneumolysis, with hemorrh. into extrapleural cavity (Rus)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412710

Into results of bilateral pneumolysis following resolved bilateral empyema. Probl.tub. 36 no.1:114-115 '58. (MIRA 11:4)

1. Is Tuberkulesnoy bol'nitsy Lengorsdravotdela na st. Rasliv
(glavnyy vrach P.G.Shamritskaya, sav. khir. otdeleniyem H.H.Fedorova)
(GOLLAPSE THERAPY

billateral pneumolysis after bilateral resolved empyema, remote results (Rus))

FEDOROVA, N.N.

Development of the uterus and the time of the appearance of its congenital anomalies during the intrauterine life of man. Dokl. AN SSSR 158 no.3:749-751 S '64. (MIRA 17:10)

1. Astrakhanskiy meditsinskiy institut. Predstavleno akademikom A.N. Bakulevym.

S/183/60/000/003/011/016/XX B004/B067

AUTHORS:

Serkov, A. T., Konkin, A. A., Solov'yeva, N. I., and

Fedorova, N. N.

TITLE:

Study of Drawing in Spinning Viscose Fibers

PERIODICAL:

Khimicheskiye volokna, 1960, No. 3, pp. 31-33

TEXT: The authors point to the great importance of plasticizing drawing to the strength of viscose fibers. They attempted to determine the conditions under which maximum drawing can be attained. In the present paper they describe their study of the effect of the $\gamma_{\rm CS}_2$

xanthogenate in the fiber, and its structure in the freshly spun state on the capability of being drawn. The effect of residual xanthogenate was studied by increasing the distance between the spinneret and the point where drawing sets in from 1 to 15 m. In this connection, $\gamma_{\rm CS}$,

from 11.0 to 6.0. Nevertheless, no changes were observed in the maximum drawing and in the mechanical properties of the fiber. In a second test Card 1/2

Study of Drawing in Spinning Viscose Fibers S/183/60/000/003/011/016/XX B004/B067 series, the number of apertures of the spinneret was varied between 300 and 100, their diameter between 0.05 and 0.10 mm. In the former case, the thread number was 6600, and γ_{CS_2} was equal to 11, in the latter case, the thread number was equal to 2200, $\gamma_{\rm CS_2}$ = 14. Also in this case, maximum drawing was independent of γ_{CS_2} . Experiments made with four precipitating baths (composition in g/1: bath 1: 15 H_2SO_4 , 400 $(NH_4)_2SO_4$; bath 2: 750 H₂SO₄, 45 (NH₄)₂SO₄; bath 3: 140 H₂SO₄, 40 ZnSO₄, 320 Na₂SO₄; bath 4: 100 H2SO4, 80 ZnSO4, 210 Na2SO4) also proved that no relation exists beand the capability of being drawn. Hence, the authors conclude that the capability of being drawn depends on the degree of structural inhomogeneity of the fiber, i.e., on its content of crystalline and amorphous fraction, as well as on its orientation, and the density of the macromolecule packets. There are 3 tables and 3 references: 1 Soviet, 1 US, and 1 British. ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic Fibers)

5/183/59/000/06/011/027 15(4) B004/B007 Serkov, A. T., Fedorova, N. N., AUTHORS: 47、日本教育工程的研究的工程是由工作的企业。 Kotomina, I. N. The Dependence of the Structure of the Fiber on the TITLE: Characteristic Values of the Viscose 1 Khimicheskiy volokna, 1959, Nr 6, pp 37 - 39 (USSE) PERIODICAL: The authors investigated the influence of viscose ripening, ABSTRACT: of its a-cellulose content, and of the lye concentration upon the structure of the fiber. Spinning of the fiber was carried out in an acid-lye bath and in an anmonium-sulfate bath. For the purpose of eliminating the influence of mechanical factors on fiber formation, spinning and the further treatment of the fibers was carried out without drawing. Detarmination of the specific weight of the fiber was carried out according to F.H. Hermans (Ref 1), of swelling in water according to E, Hubert (Ref 8), and of the structure of its cross section (percentage of the shell in the total cross section) by coloring by means of a direct dye (anil pure blue). Table 1 shows the influence Card 1/2

The Dependence of the Structure of the Fiber on \$/183/59/000/06/011/027 the Characteristic Values of the Viscose B004/B007

> exerted by the ripening of the viscose, table 2 the influence of the NaOH-content, and table 3 the influence exerted by the α -cellulose content of the viscose upon these characteristic values. The authors obtained the following results: With increasing ripening and increasing 4-cellulose content of the viscose, the swelling of the fiber in water decreases. The least swelling was found, in accordance with N.V. Mikhaylov and N.N. Zaviyalova (Rof 11) with a 5 - 8% NaOH content in the viscose solution. The lowest specific weight was obtained during spinning in an acid-salt bath at 300, an NaOH-content of 6,6 and a 16 hours old viscose. In fibers with a low specific weight the percentage of the fiber sheath in the total cross section is higher. There are 3 tables and 11 references, 3 of which are Soviet,

ASSOCIATION:

VNIIV-Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna (all-Union Scientific Research

Institute for Synthetic Fibers)

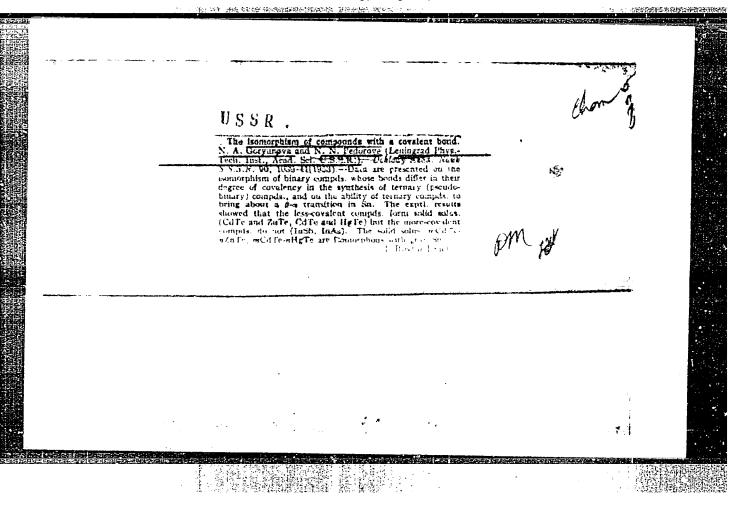
TEPLINSKAYA, T.K.; FEDOROVA, N.N.; ROZENTSVEYG, S.A.

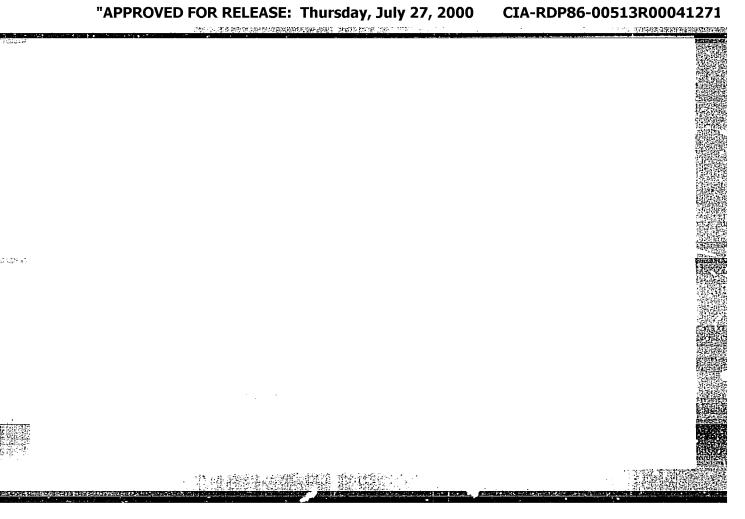
Nature of the product of the second anodic process on the iron electrode of an alkaline accumulator. Zhur. fiz. khim. 38 no.9:2176-2181 S *64. (MIRA 17:12)

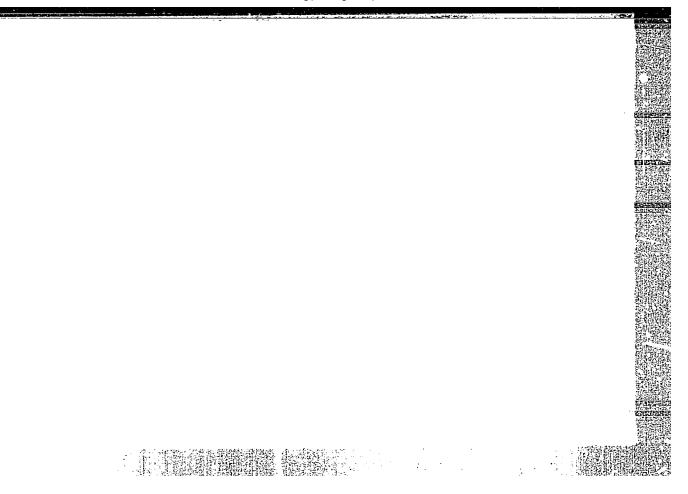
1. Nauchno-issledovatel skiy akkumulyatornyy institut, Leningrad.

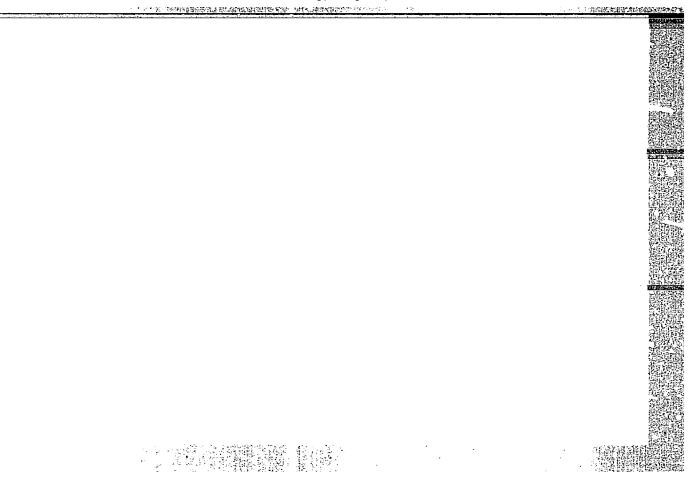
"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041271









Rickett-Human and Animal Virusos. USBR / Virology. siao. Abs Jour: Rof Zhur-Biol., No 5, 1959, 19374. : Sokolova, N. F.; Fedorova, N. N. Author : Not givon. : Further Study on the Resistance of the Rickett-Inst Title siac Burnoti to the Action of Cortain Chemical Substances. Orig Pub: Zh. mikrobiol., opidomiol. i immunobiol., 1958, No 8, 81-85. Abstract: Rickettside burneti are resistant to the fiftoon minute action of formalin solution (1% formaldohydo, five minute action of 5% solution of CH3COOH, 5% solution of NaOH and 3% solution of H202. Solution of formalin (2% formaldchyde), 10% solution of NaOH and 5% solution of H2O2 kill the Rickettsiae. Card 1/1 # 14 END ===2033

AUTHORS:

Goryunova, N. A., Fedorova, N. N.

SOV/57-58-8-9/37

Sokolova, V. I.

TITLE:

On Indium Phosphide With Stoichiometrical and Non-Stoichiometrical Composition (O fosfide indiya stekhio-

metricheskogo i nestekhiometricheskogo sostavov)

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1958, Nr 8, pp. 1672 - 1675

(USSR)

ABSTRACT:

This is an attempt to determine the width of the homogeneous zone in InP, at least in first approximation, by determining the lattice constants of indium phosphide, when an excess of one or the other component is introduced into the indium phosphide. Moreover, it was intended to obtain reliable data on the identity period of indium phosphide which was produced from pure substances. The indium used in the synthesis contained only negligible traces of copper, according to data from spectral analysis. The phosphorus which was purified by repeated washing with hydrochloric acid contained copper, aluminum, iron, magnesium, and silicon in quantities of a few thousands of a percent. Bismuth, antimony, lead, tin, zirc,

Card 1/3

On Indium Phosphide With Stoichiometrical and Non- SOV/57-58-8-9/37 Stoichiometrical Composition

and arsenic could not be observed. According to data from spectral analysis all samples were produced by an immediate combined melting of the components. The procedure in the production of indium phosphide samples with an excess of indium or of phosphorus is described. The stoichiometrical InP was produced by two methods, which are described in short. The samples with an indium excess all exhibited a picture typical of two-phase substances. The samples with a phosphorus excess also yielded the picture of a two-phase substance. The phosphorus veins and the inclusions had a red color. No indications of a second phase were found in the polished sections of stoichiometrical indium phosphide samples. In the X-ray analysis a simple and a refined powder method were applied. The refined X-ray diagram was taken with a Cu K_{α} -radiation according to two methods. The evidence presented shows that the identity period of indium phosphide is equal to 5,8693 \upbeta and that it does not vary within a range of \pm 0,0006 A, if an

excess of the one or the other component is introduced. There

is every indication that the width of the homogeneous zone

Card 2/3

On Indium Phosphide With Stoichiometrical and Non-Stoichiometrical Composition

57-58-8-9/37

in indium phosphide is very narrow. Professor D. N. Nasledov and Professor B. F. Ormont discussed the results of the work with the authors. There are 2 figures, 1 table, and 19

references, 4 of which are Soviet.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut AN SSSR

(Leningrad Physical and Technical Institute, AS USSR) Nauchno-issledovatel skiy akkumulyatornyy institut (Scientific Research Institute of Accumulators)

SUBMITTED: October 26, 1957

Card 3/3

GORYUNOVA, N.A.; PEDOROVA, N.N.

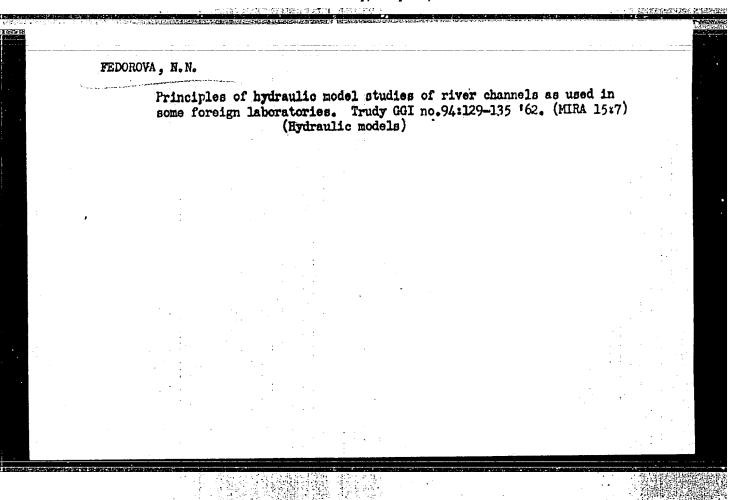
Solid solutions in the system ZnSe - GaAs. Fiz. tver. tela 1 no.2: 344-345 F 159. (MIRA 12:5)

1.Leningradskiy fiziko-tekhnicheskiy institut AN SSSR i Vsesoyuznyy nauchno-issledovatel'skiy akkumulyatornyy institut pri Gosplane SSSR. (Solutions, Solid)

FEDOROVA, N.N.

Briquetting of oxidized nickel ores. TSvet.met. 34 no.10:80 0 (MIRA 14:10)

161. (Nickel ores) (Briquets)



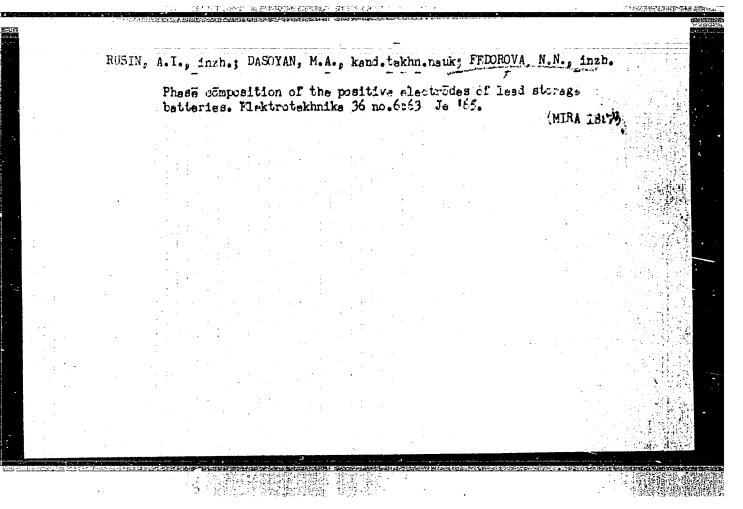
FEDOROVA, N.N.; ACUF, I.A.; LEVINZON, L.M.; DASOYAN, M.A.

I-ray diffraction phase analysis of mixtures of PbO₂ modifications. Zav. lab. 30 no.62727-728 *64 (MIRA 1728)

FEDOROVA, N.N.

I-ray photographs of current-carrying electrodes. Zav. lab.
30 no.11:1370 '64. (MIRA 18:1)

1. Nauchno-issledovatel'skiy akkumulyatornyy institut.



PEDOROVA, N.P.

Our experience of corn cultivation in the agrometeorological service. Meteor.i gidrol. no.8:43-45 Ag 156. (MLRA 9:11) (Corn (Maixe))

FEDOROVA, N.S., kandidat meditsinskikh nauk.

Errors in the diagnosis of cancer of the lower lip. Stomatologiia, no.6:32-35 N-D 155. (MIRA 9:5)

1. Iz kafedry khirurgicheskoy stomatologii (sav.-prof. S.F. Kosykh) stomatologicheskogo fakuliteta Molotovskogo meditsinekogo instituta (dir.-prof. I.I. Kositsyn)
(LIPS, neoplasms
diag. errors in cancer of lower lip)

FEDOROVA, II.S.

Technic of surgical treatment of carcinoma of the lower lip.

Khirurgiis, 33 no.1:107-111 Js '57 (MIRA 10:4)

1. Iz kafedry khirurgichaskoy stomatologii i kliniki chelyustno-litsevoy khirurgii (zav.-prof. S.F. Kosykh) Molotovskogo meditsinskogo stomatologichaskogo instituta (dir. M.V. Kostylev) (LIPS, neoplasms of lower, surg. technic) (Rus)

FEDOROVA, N.S. land. med. nauk

Inte results of surgery in cancer of the lower lip. Stomatologiia 38 no.2:42-45 Ap 159. (MIRA 12:7)

1. Iz kafedry khirurgicheskoy stomatologii (i.o. zav. - dotsent A. F. Ivanov) Permskogo meditsinskogo instituta (dir. - prof. I.I. Kositsyn).

(LIPS-CANGER)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000412710

FEDORO	VA. N. S.				
	Influence of the hydrodynamics of the anodic process on the concentration polarization taking place during the anodic solution of copper. Report No.1. Trudy MERTI no.26:34-39 159:				nd 1 a 39 · 159 i
		(Copper)	(Polarization	(Electricity))	23077
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Influence of the hydrodynamics of the anodic process on the concentration polarization taking place during the anodic solution of copper. Report Bo. 2. Trudy MKHII no.26:440-3-459. (Copper) (Polarization (Rectricity))

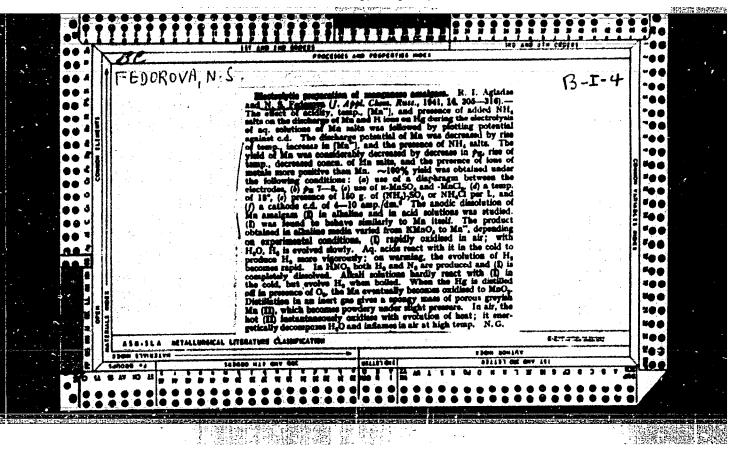
FRUCKINS A. W.

ATD Nr. 986-1 10 June ANODIZING OF ALUMINUM IN FLUORIDE SOLUTIONS (USSR)

Fedorova, N. S. Zhurnal fizicheskoy khimii, v. 37, no. 4, Apr 1963, 883-885. S/076/63/037/004/017/029

The Moscow Institute of Chemical Technology imeni D. I. Mendeleyev has studied the position of films obtained by anodic polarization of aluminum in aqueous solution of films obtained by anodic polarization of aluminum in aqueous solution of films obtained of films consisted of K₃AlF₆. Na₃AlF₆, or that, depending on electrolyte, the films consisted of K₃AlF₆. Na₃AlF₆, or that, depending on electrolyte, the films consisted of K₃AlF₆. Na₃AlF₆, or SNH₄FAIF₃. In some films small amounts of AlF₃ were also found. Films obtained in KF and NH₄F electrolytes were dense, tightly adhering to metal; those obtained in NaF were porous and loose. The K₃AlF₆ and 3NH₄F-AlF₃ films were found to have dielectric properties.

Card 1/1



FEDOROVA, N. S.

FEDOROVA, N. S. -- "A Study of Hydrogen Supertension on Certain Electrolection of Chlorine." Min Higher trodes in the Electrolytic Production of Chlorine." Min Higher Education USSR. Main Administration of the Technological Vuzes. Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev. Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

AUTHOR:	76.32.3-3/43 Fedorova, N. S.
TITLE:	On the Connection Between Hydrogen Overveltage on Alloys and Their Interatomic Distances (O svyazi mezhdu perenapryazheniyem vodoroda na splavakh i mezhatomnymi rasstoyaniyami v nikh)
PERIODICAL:	Zhurnal Fizicheskoy Khimii, 1958, Vol 32, Nr 3, pp 506-511(USSR)
ABSTRACT:	The phenomenon already mentioned in the title was observed by N. Te. Khomutov (Ref 1) and independently from him by Leidheiser (Ref 2), who both found an overvoltage minimum at atomic distances of 2.76 - 2.74 Å. In this connection, Khomotov (Ref 3) gives some physical explanations, which are experimentally confirmed. V. G. Inzhechik (Ref 4) investigated the cathode potentials of little alloyed binary alloys of iron with vanadium, tungsten and molybdenum, whilst Raeder and Brun (Ref 7) investigated hydrogen overvoltages on alloys. Himmler (Ref 9) was occupied with overvoltage measurements on silver alloys in connection with the palladium content. As in all investigations, a connection between the overvoltage and the interatomic distance was found for alloys, and analogously for pure metals. It still has to be explained.
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76-32-3-3/43

On the Connection Between Hydrogen Overvoltage on Alloys and Their Inter-

why this does not occur on a number of alloys. The present paper investigated the hydrogen overvoltages on galvanic iron. -nickel alloys, whereby 6 alloys (with 9, 18, 31, 52, 64 and 88 % nickel), as well as electrodes with galvanic coatings of pure nickel and pure iron were examined. The measurements were performed in air-saturated solutions according to Hickling and Salt (Ref 11). The first, graphically represented determinations show that the potential of hydrogen formation changes corresponding to the composition of alloys. However, this only holds for current densities exceeding 1600 A/cm2, whilst at lower current densities, the polarization curves for different alloys change their position relative to each other. The dependence of the potential on the logarithm of the current density corresponds to the formula according to Tafel, whereby the constant varies corresponding to the alloy and to the solution, and furthermore, as was observed, it is greater at higher current densities, than at lower ones. By means of X-ray analyses, a connection between the hydrogen formation and the structure of the crystal lattice of the alloys was observed. A calculation according to the method of G. B. Bokiy (Ref 13) confirmed that the interatomic

Card 2/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041271(

76-32-3-3/43

On the Connection Between Hydrogen Overvoltage on Alloys and Their Interatomic Distances \

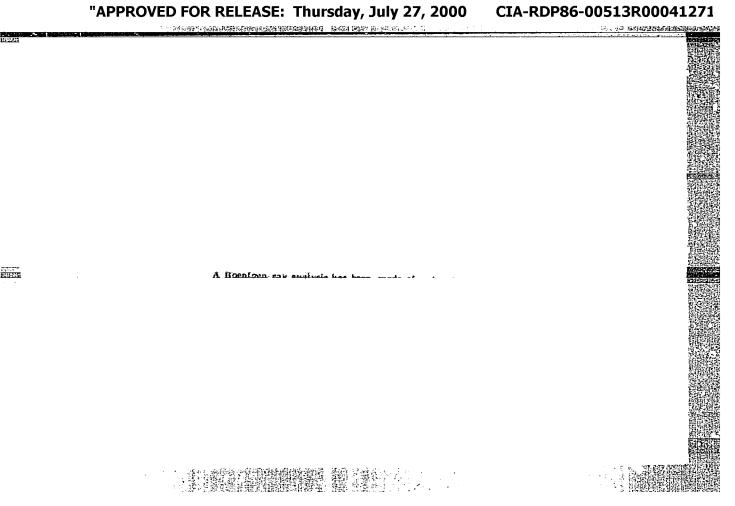
distances change according to the composition (in the concrete case) of the alloy from 2.47 - 2.58 Å. Corresponding to the investigations of N. Ye. Khomutov the hydrogen overvoltage is a function of the interatomic distance in the metal with a minin at 2.76 Å. If this distance is related to the alloy, the presence of iron is to be assumed. Therewith some obtained results are explained, and an alloy with , 18 % nickel (and not 31%) shows the lowest overvoltage value. Data on different alloy compositions are given. There are 3 figures and 13 references, 8 of which are Soviet ...

ASSOCIATION: Khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED:

May 29, 1956

Card 3/3



507/76-32-6-3/46

AUTHOR:

Pedorova, N. S.

TITLE:

An X-Ray Analysis of Galvanic Iron-Nickel Alloys (Rentgenostrukturnoye issledovaniye gal'vanicheskikh zhelezo-nikelevykh

splavov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 6,

pp. 1211 - 1213 (USSR)

ABSTRACT:

The investigations by F. Marshak and D. Stepanov (Ref 2) proved that the above mentioned alloys occur as solutions. This, however, does not agree with other data. In the present paper alloys with a content of 9,18,31,52,64 and 88% of nickel were investigated. From the experimental part proceeds, among other things, that the X-ray structural analyses were conducted according to the method by Debye-Shearer with an equipment of the type URS -70-K1. The results showed that the parameters of the galvanic alloy differ somewhat from those of the thermal ones. Two phases were found to exist. It was found that alloys with a content of from 9 - 18% of nickel crystallize in a cubical lattice, alloys with 52,64 and 88% of nickel in a face--centered lattice, the alloy with 31% of nickel consists of a mixture of two phases, a cubic centered one and a face-centered

Card 1/3

An X-Ray Analysis of Galvanic Iron-Nickel Alloys

sov/76-32-6-3/46

one. The assumption, that the alloy with 30-50% of nickel represents a chemical compound of the type Fe, Ni was not

substantiated by the X-ray analyses. On the other hand it was found that the galvanic alloys represent a solution of one component in the other. In the microsection surface only the grain boundaries could be seen and no differences in the etching were observed. The limit of resistivity of the properties of the alloys with a content of from 30-50% of nickel are explained by the presence of two phases with a different crystalline structure. There are 2 tables and 6 references, 4 of which ar: Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.D.I.Mendeleyeva (Moscow Chemical and Technological Institute imeni D.I Mendeleyev)

SUBMITTED:

May 29, 1956

Card 2/3

An X-Ray Analysis of Galvanic Iron-Mickel Alloys SOV/76-32-6-3/46

1. Iron-nickel alloys—X-ray analysis 2. Iron-nickel alloys—Phase studies 3. Iron-nickel alloys—Test results 4. Iron-nickel alloys—Crystal structure 5. Iron-nickel alloys—Electrical properties

Gard 3/3

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三四月 開

S/153/60/003/006/006/009 B103/B206

AUTHOR:

Fedorova, N. S.

TITLE:

X-ray structural analysis of protective films on magnesium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, v. 3, no. 6, 1960, 1067-1071

TEXT: The author reports on X-ray studies of protective films which she produced during anodizing of pure magnesium in KF solutions under various electrolysis conditions. Data in publications (Refs. 1 to 4) on the composition of such films are fragmentary and contradictory. The films were scraped off the magnesium plate, tamped into a 6 to 7 mm wide celluloid capillary, and studied and measured by the Debye-Scherrer powder pattern method in the X-ray apparatus YPC -70-K1 (URS-70-K1) with a valve 6CB-4 (BSV-4) and a comparator ISA-2 (IZA-2). The author concludes from the measurements that when anodizing magnesium in a KF solution (300 g/1) with a current density of 5 a/dm² and at 20°C, the film also contains the compound KMgF₂ (Ref. 8), besides MgF₂. The structure of the electro-

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S/153/60/003/006/006/009 B103/B206

X-ray structural analysis of ...

chemically prepared KMgF₃ agrees with that of the thermally prepared one. The author thus established that components are contained in the film, which are analogous to the melting-point diagram in the range between MgF₂ and KMgF₃. The author further proved that at current densities of MgF₂ and KMgF₃ and amounts of electricity of from 2 to 50 a · min/dm², 0.5 - 35 a/dm² and amounts of electricity of from 2 to 50 a · min/dm², MgF₂, KMgF₃ and MgO are always contained in the film. Films which developed under stirring of the electrolyte contained, however, MgF₂ only. Additions of surface-active substances such as ethylene glycol (50 ml/l), thiourea (0.2 g/l) and gelatin (2 g/l) did not form chemically pure KMgF₃. The author concludes from her results that the formation of KMgF₃ is a secondary, non-electrochemical process of interaction between MgF₂ and KF, which proceeds in the solid phase. The formation of MgF₂ is apparently no electrochemical process either. MgF₂ is, however, formed sooner than KMgF₃. The author thanks Professor S. V. Gorbachev for valuable advice.

8/153/60/003/006/006/009 B103/B206

X-ray structural analysis of ...

There are 2 figures, 1 table, and 8 references: 3 Soviet-bloc and 4 non-Soviet-bloc.

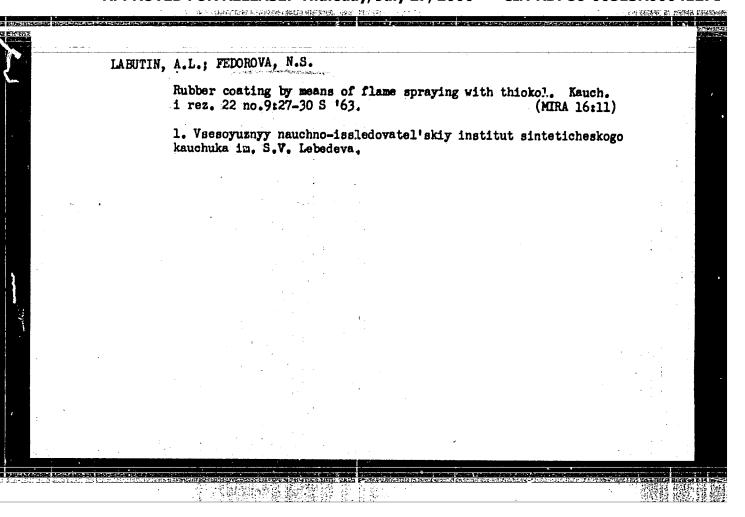
ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

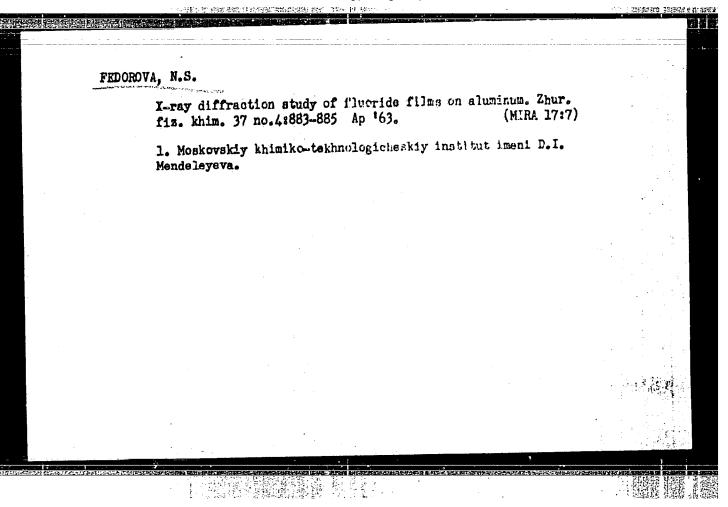
D. I. Mendeleyeva; Kafedra fizicheskoy khimii (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev;

Department of Physical Chemistry)

SUBMITTED: April 2, 1959

Card 3/3



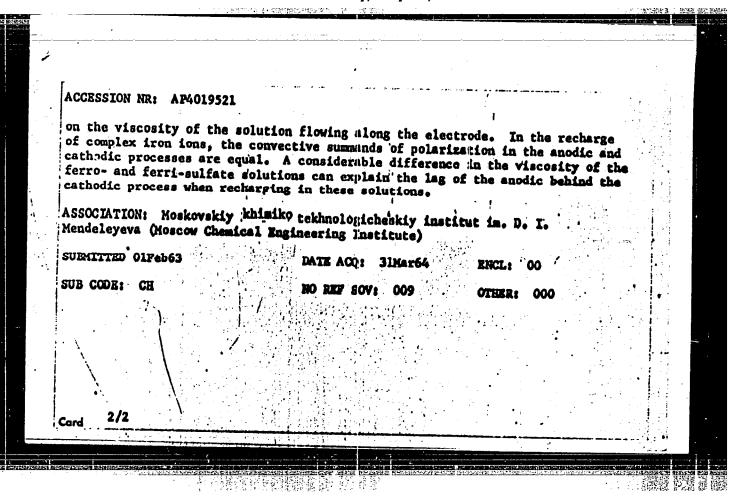


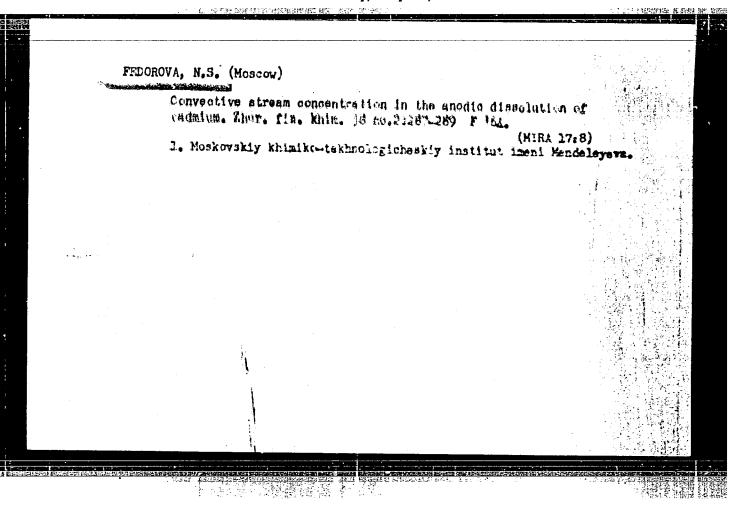
PEDOTOVA, O.Ya.; SHTIL'MAN. M.I.; LOSEV, I.P. [deceased]

Cyanoethylation of diamines. Fart 6: Salts of di vancethylhexamethylenediamine and dicarboxylic acids. Zhur. cb. khim. 34 no.12±007-4010 D '64 (MIRA 18:1)

1. Moskovskiy khimiko-tekhmologicheskiy institut imeni D.I. Mendeleyeva.

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Accession NR:	8/0076/64/038/002/0372/0374 AP4019321	:
	aturyan, O. B. (Moscow); Padorova, N. S. (Moscow)	
TITLE: Natura systems	l convection vs recharging rate in reversible oxidation-reduction	4
	nal fizicheskoy khimii, v. 38, no. 2, 1964, 372-374	
	electrolytic convection, oxidation reduction electrolysis, ferri lysis, electrolytic recharging rate, iron ion	
	timels number of studies dealing with recharge	1
in reversible as an investigand cathodic prests they use the viscosity recharge of i	oxidation-reduction processes, the distribution reduction influences the rate of anodic gation in how far natural convection influences the rate of anodic process during recharge of simple and complex iron, ions. For their ed the IAB-451 shadow instrument to determine (by changing refraction) and distribution of upward and downward flows. It was found that and distribution of upward and downward flows. To characterize the ron ions is accompanied by natural convection. To characterize the	
in reversible as an investigand cathodic tests they us the viscosity recharge of i	oxidation-reduction processes, the distribution reduction in fluences the rate of anodic gation in how far natural convection influences the rate of anodic process during recharge of simple and complex iron, ions. For their process during recharge of simple and complex iron, ions. For their ed the IAB-451 shadow instrument to determine (by changing refraction) and distribution of upward and downward flows. It was found that and distribution of upward and downward flows. To characterize the	

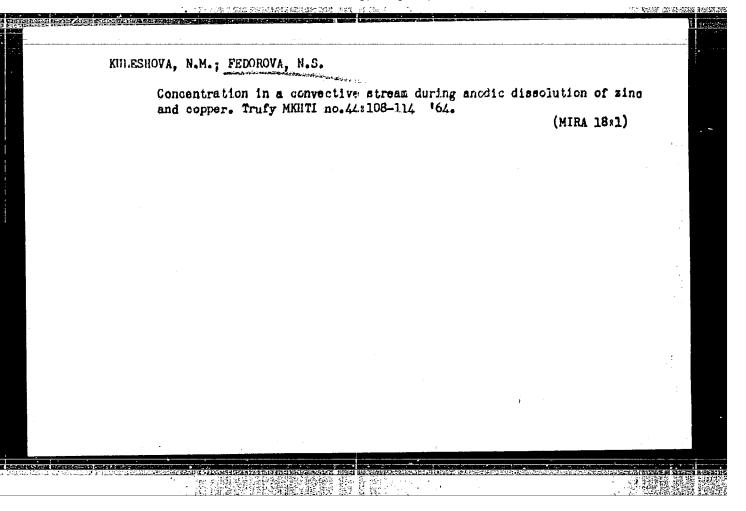


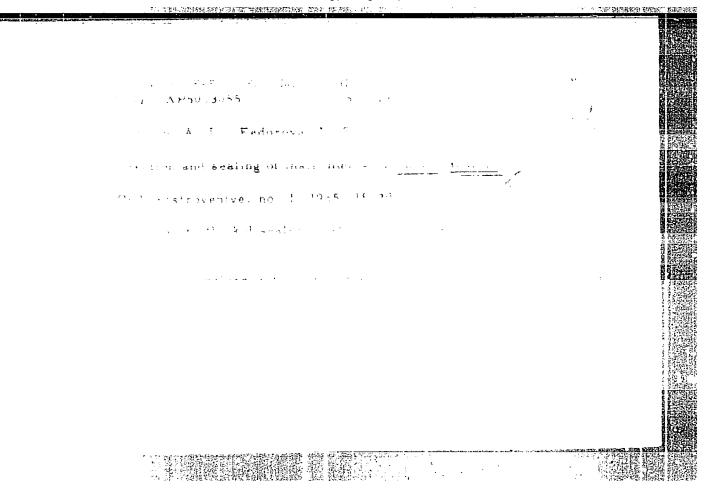


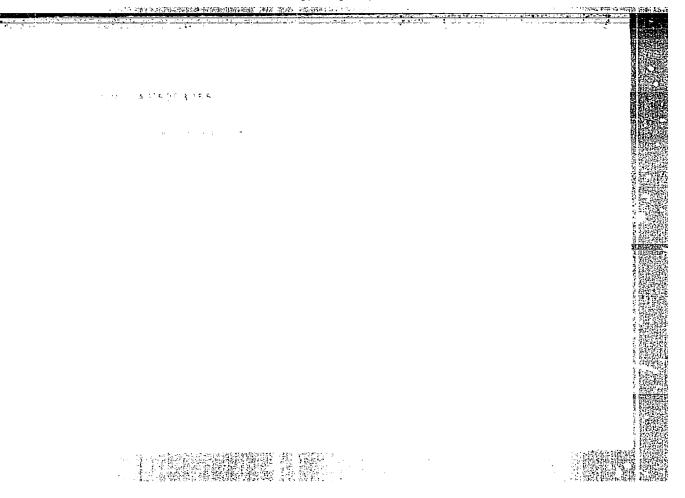
KHACHATURYAN, C.B.; FEDOROVA, M.S.

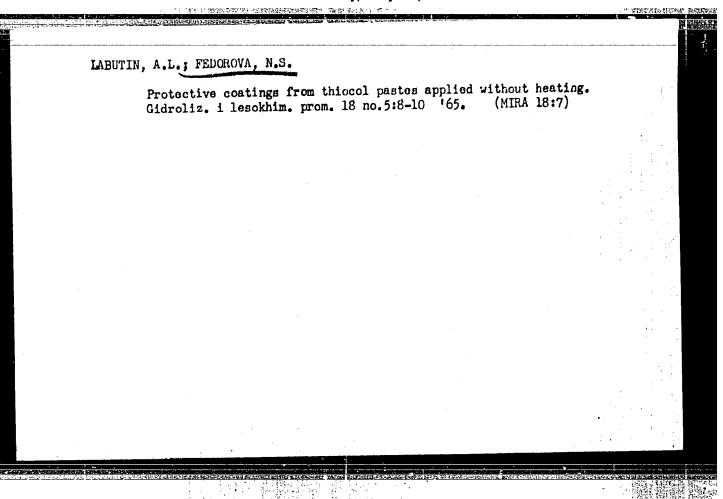
Effect of natural convection on the recharging rate in reversible redox systems. Thur. fiz. khim. 38 no.2:372-374 f 164. (MIRA 17:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.







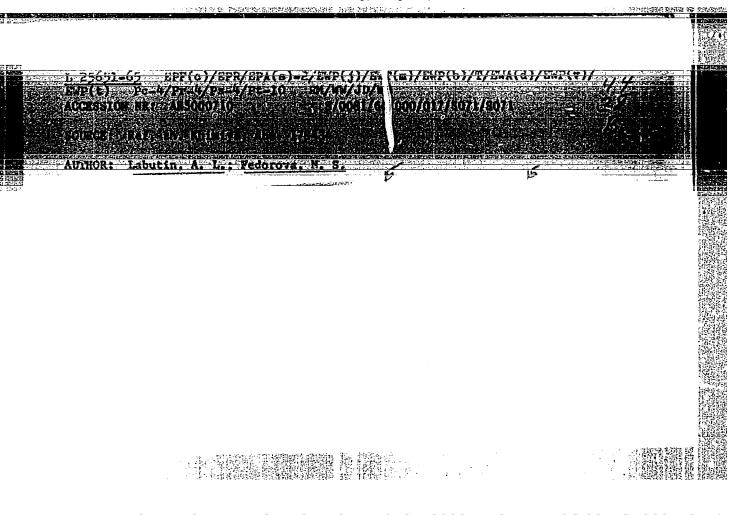


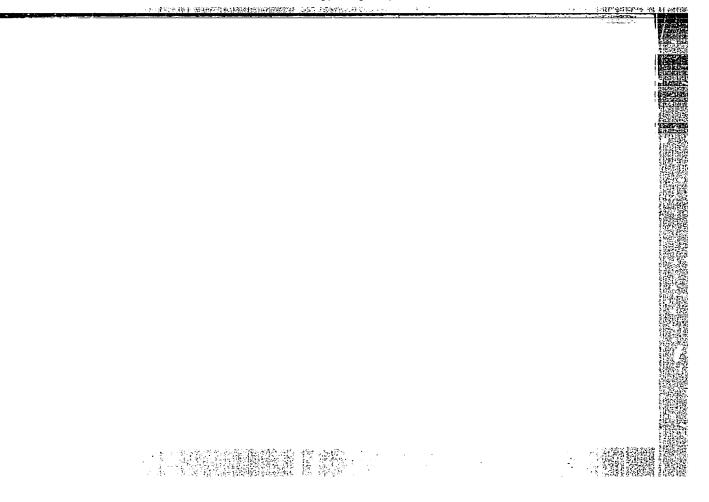
FEDOROVA, N.S.; KULESHOVA, N.M.

Effect of additions on the thermal effect of the process of anodic dissolution of copper. Zhur. fiz. khim. 39 no.4:986-989 Ap '65.

(MIRA 19:1)

1. Khimiko-tekhnologicheskiy institut imeni Mendeleyeva. Submitted Feb. 8, 1964.



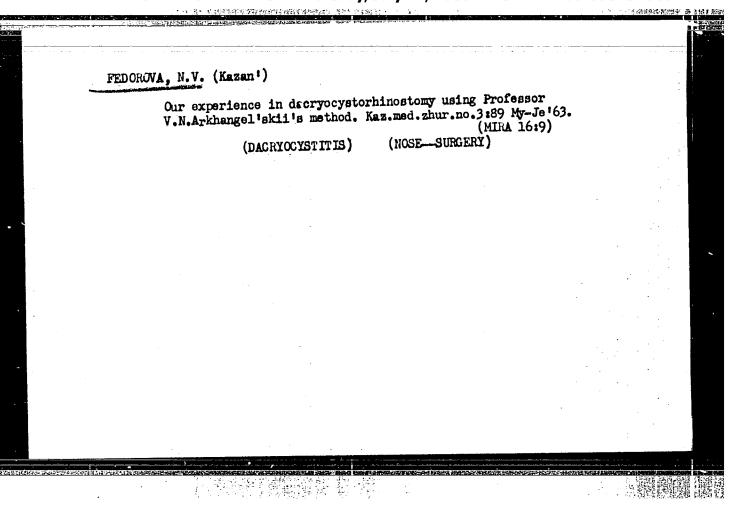


MU.

PEDOROVA, N.Y.

Herly diagnosis of cancer of the cervix uteri. Lab.delo 6 no.3: 4-6 My-Je 160. (MIRA 13:7)

1. Stalingradskiy oblasnoy onkologicheskiy dispansor (glavnyy vrach - zasluzhennyy vrach RSFSR K.M. Petrov).
(UTHRUS--CANCER)



FEDOROVA, N.V.; YUNUSOVA, A.N.

Changes in the cholinergic reaction of the blood in dogs following a thyroidectomy. Nauch. trudy Kaz. gos. med. inst. 14:311-313 (MIRA 18:9)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya (zav. - kand. biolog. nauk S.V.Senkevich) Kazanskogo meditsinskogo instituta.

KRAYEVSKIY, A.A.; FEDOROVA, N.V.; ZOTOVA, S.A.; SARYCHEVA, I.K.; PREOERAZHENSKA, N.A.

Methylene-divided polyyne compounds. Synthesis of 1,4-heptadine and 2, 5,8-undecatriyn-l-ol. Zhur.ob.khim. 34 no.2:552-554 F '64.

(MIRA 17:3)

1. Moskovskiy institut tonkoy khimicheakoy tekhnologii imeni M.V.Lomonosova.

